

# CHRISTOPHER PASCUAL ABELLA

## Senior Full Stack Engineer

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## Skills

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### Frontend Technologies:

React.js · Next.js · Angular · Vue.js · React Native · Tailwind CSS · MUI · JavaScript · HTML · CSS

### Backend Technologies:

Node.js · TypeScript · JavaScript · Express.js · Java · Spring Boot · PHP · Laravel · Codeigniter · C# · ASP.NET · Python · Django · Flask · FastAPI · Go · Golang · gRPC · NestJS

### Cloud & DevOps:

AWS · EC2 · Lambda · S3 · CloudWatch · ECS · Fargate · Google Firebase · Azure DevOps · Docker · Kubernetes · Jenkins · GitHub Actions · CI/CD · Terraform · Helm

### Data Management:

PostgreSQL · MySQL · MongoDB · Redis · DynamoDB · CassandraDB · Elasticsearch · Snowflake · BigQuery

API & Protocols: REST APIs · GraphQL · gRPC · JWT/OAuth2 Authentication · WebSockets · OpenAPI · Swagger

## Experience

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### Hireplicity, Inc.

Remote

#### Senior Software Engineer

04/2023 - Present

- Engineered a scalable microservices architecture using **Python (Django, FastAPI, Flask)** for government procurement workflows, achieving **99.99% uptime** and processing **500+ daily requests**.
- Built a **GraphQL layer** that allowed **fine-grained queries** over large sets of solicitation data and agency documents, reducing **over-fetching** and boosting performance by **30%**.
- Implemented **WebSocket-based alerts** for newly published opportunities, approaching deadlines, and updates on proposal evaluations, providing users with **instant, actionable insights**.
- Centralized government contracting data by migrating **100,000+ records** into **MongoDB**, and automated **real-time updates** from government sources via **Apache Kafka**, ensuring the system displayed the most current information.
- Established role-based access control (RBAC) utilizing **OAuth2** and **JWT authentication** protocols; mitigated potential data breaches by **65%** and ensured compliance with industry security standards.
- Implemented **rate limiting** and **API throttling** using **Redis**, supporting **50+ client applications concurrently** while preventing **denial-of-service attacks**, improving overall system reliability and availability.

### Global BrainForce

#### Senior Full Stack Engineer

05/2019 - 03/2023

- Pioneered high-throughput backend services in **Java (Spring Boot)** incorporating **gRPC** and **Apache Kafka**, processing **5,000+ transactions** per second while reducing average latency to **85ms**.
- Optimized **Java Spring Boot microservices**, decreasing latency in critical transaction workflows to an average of **85ms** while handling peak loads of **7,000 transactions** per second.

## Experience

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- Integrated **AWS Lambda serverless functions** into application architecture, reducing infrastructure costs by **30%** and decreasing average function execution time by **50ms**.
- Integrated **MongoDB** and **Oracle** with read replicas for high-availability storage.
- Engineered real-time dashboards within **Splunk** that visualized system performance, identified bottlenecks, and improved incident response times while monitoring **50+ transaction** pipelines.
- Automated infrastructure provisioning with **Terraform**, reducing setup time by **60%**.
- Fortified system security by enforcing role-based access control across five key applications and enabled **AES-256** encryption, exceeding regulatory requirements for financial data protection and compliance.
- Orchestrated the development of 10+ high-performance backend microservices using **Go (Golang)**, improving API response times by **30%** and enabling support for **2 million concurrent users**.
- Refined scalable data infrastructure utilizing **DynamoDB** for efficient storage of media metadata and game states, achieving a **20% reduction** in database query latency due to optimized schema.
- Orchestrated a global content delivery network utilizing **AWS CloudFront**, which decreased average media loading times by **60ms** for international users and supported **2M+ concurrent streams** globally.
- Orchestrated serverless media transformation pipelines via **AWS Lambda**, processing **5M+ images monthly** with **99.99% uptime**, enabling faster content delivery and improved user experience across platforms.
- Initiated centralized logging using the **ELK stack**, capturing **100% of application logs** and reducing debugging time by **30%** by providing visibility into application performance, exceeding team goals.
- Instituted a comprehensive disaster recovery strategy employing **AWS Backup** and cross-region replication, achieving a Recovery Time Objective of **under 15 minutes**.
- Orchestrated performance tuning strategies with tools like **Prometheus**, decreasing average game latency by **150ms** during peak hours, resulting in a superior user experience and higher player retention.

### Chromedia Inc.

#### Software Developer

06/2017 - 04/2019

- Accelerated core API enhancements with **Node.js (NestJS)** following senior engineer guidance; increased API test coverage and decreased server response times by **150ms**, as measured by **Datadog**.
- Fashioned responsive UIs with **Tailwind CSS** and **React**, resolving **80%** of cross-browser compatibility issues and boosting average page load speed by **20%** on mobile devices.
- Forged scalable data architecture using **SQLite** for local development environments and **Snowflake** for analytical workloads, enabling **10+ engineers** to conduct efficient data analysis and reporting.
- Orchestrated microservice communication using **Apache Kafka**, achieving **99.99% uptime**, and enhanced application responsiveness by optimizing **Redis** cache invalidation policies during peak traffic.
- Orchestrated infrastructure-as-code using **Terraform**, automating provisioning of **50+ virtual machines**, and slashing deployment times by **60%**, while ensuring adherence to security protocols and infrastructure compliance.
- Actively contributed in **code reviews** with senior developers and participated in documentation and best practice sharing sessions.

## Education

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University of the Philippines Diliman

Bachelor's in Computer Science

Philippines

04/2014 - 05/2018